Alternatives Selection Report APPENDIXES

I-10 CORRIDOR IMPROVEMENT STUDY (State Route 51 to Santan Freeway)

ADOT CONTRACT NO. 00-75 PROJECT NO. 10 MA 147 H545401L FEDERAL NO. NH-010-C(ADH)

Prepared For:

Arizona Department of Transportation

Prepared By:

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APPENDIX A Conceptual Cost Estimates

I-10 Corridor Improvement Study (State Route 51 to Santan Freeway)

I-10 Widening Alternatives
Alternative No. 1: 1988 Express/Local Lanes Concept

Estimate Date: December 1, 2006

Alternative No. 1: 1988 Express/Local Lanes C	Estimate Date: December 1, 2006			
Description	Unit	Quantity	Unit Cost	Total
Removals				
- Remove Structures and Obstructions	LS	1	\$3,000,000	\$3,000,000
- Pavement Removal	SY	450,000	\$12.00	\$5,400,000
- Curb and Gutter Removal	LF	115,000	\$5.00	\$575,000
- Barrier Removal	LF	110,000	\$15.00	\$1,650,000
- Bridge Structure Removals	LS	1	\$2,000,000	\$2,000,000
Earthwork				
- Roadway Excavation	CY	1,000,000	\$6.00	\$6,000,000
- Borrow	CY	3,300,000	\$7.50	\$24,750,000
Pavement Items				
- Express, Local and Ramp Pavement (include ARFC)	SY	1,000,000	\$52.00	\$52,000,000
- Crossroad Pavement	SY	75,000	\$36.00	\$2,700,000
- Concrete Curb & Gutter	LF	30,000	\$16.00	\$480,000
- Concrete Half Barrier	LF	350,000	\$60.00	\$21,000,000
Bridge Structures and Walls				
- Widening of Existing Bridges	LS	1	\$8,200,000	\$8,200,000
- Replacement of Existing Bridges	LS	1	\$36,000,000	\$36,000,000
- New Bridges	LS	1	\$47,000,000	\$47,000,000
- Retaining Walls	SF	1,620,000	\$50	\$81,000,000
- Noise Walls	LS	1	\$14,000,000	\$14,000,000
Drainage Improvements				
- On-Site and Off-site Drainage Improvements	LS	1	\$25,000,000	\$25,000,000
Traffic Improvements				
- Pavement Marking	LS	1	\$1,500,000	\$1,500,000
- Signing	LS	1	\$11,500,000	\$11,500,000
- Lighting	LS	1	\$4,300,000	\$4,300,000
- Traffic Signals	LS	1	\$2,900,000	\$2,900,000
Freeway Management Systems				
- FMS Relocation	LS	1	\$15,100,000	\$15,100,000
Environmental Mitigation				
- Cultural Resources & Biological Mitigation	LS	1	\$1,300,000	\$1,300,000
Utility Relocation				
- Utility Relocation	LS	1	\$10,900,000	\$10,900,000
Landscaping				
- Landscaping and Irrigation	Mile	18	\$750,000	\$13,500,000

Subtotal:		\$391,755,000
Maintenance and Protection of Traffic	10%	\$39,180,000
Dust and Water Palliative	1%	\$3,920,000
Quality Control	2%	\$7,840,000
Construction Surveying	2%	\$7,840,000
Erosion Control	0.25%	\$980,000
Mobilization (8% of Total Construction Items)		\$50,170,000
SUBTOTAL - CONSTRUCTION ITEMS:		\$501,685,000
Unidentified Items	25%	\$125,430,000
TOTAL CONSTRUCTION COST:		\$627,120,000
Construction Engineering	9%	\$56,450,000
Construction Contingencies	5%	\$31,360,000
Engineering Design (Includes Surveying And Geotechnical)	8%	\$50,170,000
Right-of-Way		\$206,700,000
TOTAL PROJECT COST:		\$971,800,000

ESTIMATE OF PROBABLE COST (2006)

I-10 Corridor Improvement Study (State Route 51 to Santan Freeway)

I-10 Widening Alternatives

I-10 Widening Alternatives Alternative No. 2: Express/Local Lanes Concep	t	·		December 1, 2006
Description	Unit	Quantity	Unit Cost	Total
Removals				
- Remove Structures and Obstructions	LS	1	\$3,000,000	\$3,000,000
- AC Pavement Removal	SY	107,000	\$12.00	\$1,284,000
- Conc Pavement Removal	SY	425,000	\$12.00	\$5,100,000
- Curb and Gutter Removal	LF	211,000	\$5.00	\$1,055,000
- Guardrail Removal	LF	79,000	\$3.00	\$237,000
- Barrier Removal	LF	55,000	\$15.00	\$825,000
- Bridge Structure Removals	LS	1	\$1,700,000	\$1,700,000
Earthwork				**********
- Roadway Excavation	CY	1,050,000	\$6.00	\$6,300,000
- Borrow	CY	4,150,000	\$7.50	\$31,125,000
Pavement Items				<u> </u>
- Express Lanes Pavement	SY	533,000	\$52.00	\$27,716,000
- Local Lanes Pavement	SY	523,000	\$52.00	\$27,196,000
- Ramp Pavement	SY	168,000	\$48.00 \$36.00	\$8,064,000 \$3,204,000
- Crossroad Pavement	SY	89,000	\$16.00	\$1,824,000
- Concrete Curb & Gutter	LF LF	114,000 361,000	\$60.00	\$21,660,000
- Concrete Half Barrier	LF	301,000	\$00.00	921,000,000
Bridge Structures and Walls	1.0	4	\$20 500 000	\$28,500,000
- Widening of Existing Bridges	LS		\$28,500,000 \$37,800,000	\$37,800,000
- Replacement of Existing Bridges	LS LS	1	\$54,100,000	\$54,100,000
- New Bridges	SF	1,750,000	\$50	\$87,500,000
- Retaining Walls - Noise Walls	LS	1,730,000	\$14,000,000	\$14,000,000
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Drainage Improvements - On-Site and Off-site Drainage Improvements	LS	1	\$32,000,000	\$32,000,000
	LO		402,000,000	V 0, V 0,
Traffic Improvements	LS	1	\$1,600,000	\$1,600,000
- Pavement Marking	LS	1	\$1,500,000	\$11,500,000
- Signing - Lighting	LS	1	\$4,200,000	\$4,200,000
- Eighting - Traffic Signals	LS	1	\$2,900,000	\$2,900,000
Freeway Management Systems				· · · · · · · · · · · · · · · · · · ·
- FMS Relocation	LS	1	\$22,000,000	\$22,000,000
		· ·	, , , , , , , , , , , , , , , , , , , ,	
Environmental Mitigation - Cultural Resources & Biological Mitigation	LS	1	\$1,300,000	\$1,300,000
	LO		ψ1 <u>10001000</u>	* 1,00
Utility Relocation	LS	1	\$11,900,000	\$11,900,000
- Utility Relocation		' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	ψ11,000,000	V.1.,000,00
Landscaping	Mile	18	\$750,000	\$13,500,000
- Landscaping and Irrigation	IVIIIE	101	\$100,000	
Subtotal:				\$463,090,000
Maintenance and Protection of Traffic			10%	\$46,310,000
Dust and Water Palliative			1%	\$4,640,000
Quality Control			2%	\$9,270,000
Construction Surveying			2%	\$9,270,000
Erosion Control			0.25%	\$1,160,000
Mobilization (8% of Total Construction Items)			,	\$59,310,000
SUBTOTAL - CONSTRUCTION ITEMS:				\$593,050,000
Unidentified Items			25%	\$148,270,000
TOTAL CONSTRUCTION COST:				\$741,320,000
Construction Engineering			9%	\$66,720,000
Construction Contingencies			5%	\$37,070,000
Engineering Design (Includes Surveying And Geotechnical))		8%	\$59,310,000 \$261,600,000
Right-of-Way			•	
TOTAL PROJECT COST:				\$1,166,020,000

I-10 Corridor Improvement Study (State Route 51 to Santan Freeway)

I-10 Widening Alternatives

Construction Engineering

Right-of-Way

Construction Contingencies

TOTAL PROJECT COST:

Engineering Design (Includes Surveying And Geotechnical)

Estimate Date: December 1, 2006 Alternative No. 3: Express/Local Lanes with HOV Viaduct Total Unit Cost Unit Quantity Description Removals LS \$3,000,000 \$3,000,000 - Remove Structures and Obstructions \$1,284,000 SY 107,000 \$12.00 - AC Pavement Removal \$5,100,000 425,000 \$12.00 SY - Conc Pavement Removal \$5.00 \$1,055,000 211,000 - Curb and Gutter Removal LF \$237,000 \$3.00 79,000 LF - Guardrail Removal \$15.00 \$825,000 55,000 LF - Barrier Removal \$1,500,000 \$1,500,000 - Bridge Structure Removals LS Earthwork \$6,180,000 1,030,000 \$6.00 CY - Roadway Excavation \$7.50 \$27,750,000 3,700,000 CY - Borrow Pavement Items 521,000 \$52.00 \$27,092,000 - Express Lanes Pavement SY \$27,196,000 523,000 \$52.00 SY - Local Lanes Pavement 168,000 \$48.00 \$8,064,000 SY - Ramp Pavement \$3,204,000 \$36.00 SY 89,000 - Crossroad Pavement \$1,824,000 \$16.00 - Concrete Curb & Gutter LF 114,000 \$21,660,000 \$60.00 361,000 LF - Concrete Half Barrier Bridge Structures and Walls \$18,200,000 \$34,000,000 - Widening of Existing Bridges LS \$34,000,000 - Replacement of Existing Bridges LS LS \$54,100,000 \$54,100,000 - New Bridges \$166,400,000 \$166,400,000 - HOV Lane Viaduct LS \$90,500,000 1,810,000 SF - Retaining Walls \$14,000,000 \$14,000,000 LS - Noise Walls Drainage Improvements \$33,000,000 \$33,000,000 LS - On-Site and Off-site Drainage Improvements Traffic Improvements \$1,600,000 - Pavement Marking \$1,600,000 LS \$11,500,000 LS \$11,500,000 - Signing \$8,500,000 \$8,500,000 LS - Lighting \$2,900,000 \$2,900,000 LŞ - Traffic Signals Freeway Management Systems \$23,500,000 \$23,500,000 - FMS Relocation LS Environmental Mitigation \$1,300,000 \$1,300,000 LS - Cultural Resources & Biological Mitigation Utility Relocation \$11,900,000 LS \$11,900,000 Utility Relocation Landscaping \$13,500,000 \$750,000 18 Mile - Landscaping and Irrigation \$620,871,000 \$62,090,000 10% Maintenance and Protection of Traffic \$6,210,000 1% **Dust and Water Palliative** \$12,420,000 2% Quality Control 2% \$12,420,000 Construction Surveying \$1,560,000 0.25% **Erosion Control** \$79,510,000 Mobilization (8% of Total Construction Items) \$795,081,000 **SUBTOTAL - CONSTRUCTION ITEMS:** \$198,780,000 25% Unidentified Items \$993,860,000 TOTAL CONSTRUCTION COST:

\$89,450,000

\$49,700,000

\$79,510,000 \$229,900,000

\$1,442,420,000

9%

5%

ESTIMATE OF PROBABLE COST (2006)

I-10 Corridor Improvement Study (State Route 51 to Santan Freeway)

I-10 Widening Alternatives

Alternative No. 4: Express/Local Lanes Concept

Alternative No. 4: Express/Local Lanes Co Description	Unit	Quantity	Unit Cost	Total
Removals				
- Remove Structures and Obstructions	LS	1	\$3,000,000	\$3,000,000
- AC Pavement Removal	SY	107,000	\$12.00	\$1,284,000
- Conc Pavement Removal	SY	425,000	\$12.00	\$5,100,000
- Curb and Gutter Removal	LF	211,000	\$5.00	\$1,055,000
- Guardrail Removal	LF	79,000	\$3.00	\$237,000
- Barrier Removal	LF	55,000	\$15.00	\$825,000
- Bridge Structure Removals	LS	1	\$1,700,000	\$1,700,000
Earthwork				40.000.000
- Roadway Excavation	CY	1,050,000	\$6.00	\$6,300,000
- Borrow	CY	4,150,000	\$7.50	\$31,125,000
Pavement Items				007 070 000
- Express Lanes Pavement	SY	538,000	\$52.00	\$27,976,000
- Local Lanes Pavement	SY	518,000	\$52.00 \$48.00	\$26,936,000 \$8,064,000
- Ramp Pavement	SY	168,000		\$3,204,000
- Crossroad Pavement	SY	89,000 114,000	\$36.00 \$16.00	\$1,824,000
- Concrete Curb & Gutter	LF LF	361,000	\$60.00	\$21,660,000
- Concrete Half Barrier	LF	301,000	Ψ00.00	921,000,000
Bridge Structures and Walls			000 000 000	\$30,300,000
- Widening of Existing Bridges	LS	1	\$30,300,000 \$37,800,000	\$37,800,000
- Replacement of Existing Bridges	LS	1	\$54,100,000	\$54,100,000
- New Bridges	LS SF	1,750,000	\$54,100,000	\$87,500,000
- Retaining Walls	LS	1,730,000	\$14,000,000	\$14,000,000
- Noise Walls	LO	<u>'</u>	V11,000,000	4,
Drainage Improvements	LS	1	\$32,000,000	\$32,000,000
- On-Site and Off-site Drainage Improvements	LS		402,000,000	Q 02,000,000
Traffic Improvements			\$1,600,000	\$1,600,000
- Pavement Marking	LS	1	\$11,500,000	\$11,500,000
- Signing	LS LS	1	\$4,200,000	\$4,200,00
- Lighting	LS	1	\$2,900,000	\$2,900,00
- Traffic Signals	1.0	 	42,000,000	
Freeway Management Systems		1	\$22,000,000	\$22,000,000
- FMS Relocation	LS	- '	ψ22,000,000	V. 2,000,00
Environmental Mitigation			\$1,300,000	\$1,300,00
- Cultural Resources & Biological Mitigation	LS	1	\$1,300,000	\$1,300,00
Utility Relocation			444,000,000	644.000.00
- Utility Relocation	LS	1	\$11,900,000	\$11,900,00
Landscaping				040 500 00
- Landscaping and Irrigation	Mile	18	\$750,000	\$13,500,00
Subt	otal:			\$464,890,000
Maintenance and Protection of Traffic			10%	\$46,490,00

- Landscaping and Irrigation	Mile 10	\$7.50,000	\$10,000,000
Subtotal:			\$464,890,000
Maintenance and Protection of Traffic Dust and Water Palliative Quality Control Construction Surveying		10% 1% 2% 2%	\$46,490,000 \$4,650,000 \$9,300,000 \$9,300,000
Erosion Control Mobilization (8% of Total Construction Items)		0.25% -	\$1,170,000 \$59,540,000 \$595,340,000
SUBTOTAL - CONSTRUCTION ITEMS: Unidentified Items TOTAL CONSTRUCTION COST:		25%	\$148,840,000 \$744,180,000
Construction Engineering Construction Contingencies Engineering Design (Includes Surveying And Geotechnical) Right-of-Way		9% 5% 8%	\$66,980,000 \$37,210,000 \$59,540,000 \$271,400,000
TOTAL PROJECT COST:		-	\$1,179,310,000

I-10 Corridor Improvement Study (State Route 51 to Santan Freeway)

West Airport Access

Option 2: Full Directional TI at Sky Harbor Blvd

Estimate Date: December 1, 2006

Option 2: Full Directional 11 at Sky Harbor B			Estimate Date: December 1, 20		
Description	Unit	Quantity	Unit Cost	Total	
Removals					
- Remove Structures and Obstructions	LS	1	\$3,000,000	\$3,000,000	
- AC Pavement Removal	SY	126,000	\$12.00	\$1,512,000	
- Conc Pavement Removal	SY	454,000	\$12.00	\$5,448,000	
- Curb and Gutter Removal	LF I	226,000	\$5.00	\$1,130,000	
- Guardrail Removal	LF I	85,000	\$3.00	\$255,000	
- Barrier Removal	LF	59,000	\$15.00	\$885,000	
- Bridge Structure Removals	LS	1	\$1,700,000	\$1,700,000	
Earthwork					
- Roadway Excavation	ÇY	1,050,000	\$6.00	\$6,300,000	
- Borrow	CY	4,220,000	\$7.50	\$31,650,000	
Pavement Items					
- Express Lanes Pavement	SY	615,000	\$52.00	\$31,980,000	
- Local Lanes Pavement	SY	521,000	\$52.00	\$27,092,000	
- Ramp Pavement	SY	196,000	\$48.00	\$9,408,000	
- Crossroad Pavement	SY	102,000	\$36.00	\$3,672,000	
- Concrete Curb & Gutter	ĹF	122,000	\$16.00	\$1,952,000	
- Concrete Half Barrier	LF	381,000	\$60.00	\$22,860,000	
Bridge Structures and Walls					
- Widening of Existing Bridges	l.S	1	\$29,000,000	\$29,000,000	
- Replacement of Existing Bridges	LS	1	\$38,800,000	\$38,800,000	
- New Bridges	LS	1	\$59,400,000	\$59,400,000	
- Retaining Walls	SF	1,890,000	\$ 50	\$94,500,000	
- Noise Walls	LS	1	\$14,000,000	\$14,000,000	
Drainage Improvements					
- On-Site and Off-site Drainage Improvements	LS	1	\$32,000,000	\$32,000,000	
Traffic Improvements					
- Pavement Marking	LS	1	\$1,600,000	\$1,600,000	
- Signing	LS	1	\$11,500,000	\$11,500,000	
- Lighting	LS	1	\$4,200,000	\$4,200,000	
- Traffic Signals	LS	1	\$2,900,000	\$2,900,000	
Freeway Management Systems					
- FMS Relocation	LS	1	\$21,700,000	\$22,500,000	
Environmental Mitigation			·		
- Cultural Resources & Biological Mitigation	LS	1	\$1,300,000	\$1,300,000	
Utility Relocation					
- Utility Relocation	l.S	1	\$13,200,000	\$13,200,000	
Landscaping					
- Landscaping and Irrigation	Mile	19	\$750,000	\$14,250,000	

- Landscaping and imgallon	Mile	19	\$1,00,000	\$14,200,000
Subtot	al:			\$487,994,000
Maintenance and Protection of Traffic			10%	\$48,800,000
Dust and Water Palliative .	•		1%	\$4,880,000
Quality Control			2%	\$9,760,000
Construction Surveying			2%	\$9,760,000
Erosion Control			0.25%	\$1,220,000
Mobilization (8% of Total Construction Items)			_	\$62,500,000
SUBTOTAL - CONSTRUCTION ITEMS:			-	\$624,914,000
Unidentified Items			25%	\$156,230,000
TOTAL CONSTRUCTION COST:			_	\$781,140,000
Construction Engineering			9%	\$70,310,000
Construction Contingencies			5%	\$39,060,000
Engineering Design (Includes Surveying And Geotechni	cal)		8%	\$62,500,000
Right-of-Way	-		_	\$268,200,000
TOTAL PROJECT COST:			-	\$1,221,210,000

ESTIMATE OF PROBABLE COST (2006)

I-10 Corridor Improvement Study (State Route 51 to Santan Freeway)

West Airport Access
Option 3: Single Point Urban Interchange (SPUI) at Buckeye Rd Estimate Date: December 1, 2006

Description	Unit	Quantity	Unit Cost	Total
Removals				
- Remove Structures and Obstructions	LS	1	\$3,000,000	\$3,000,000
- AC Pavement Removal	SY	126,000	\$12.00	\$1,512,000
- Conc Pavement Removal	SY	454,000	\$12.00	\$5,448,000
- Curb and Gutter Removal	LF	226,000	\$5.00	\$1,130,000
- Guardrail Removal	LF	85,000	\$3.00	\$255,000
- Barrier Removal	LF	59,000	\$15.00	\$885,000
- Bridge Structure Removals	LS	1	\$1,900,000	\$1,900,000
Earthwork				
- Roadway Excavation	CY	1,050,000	\$6.00	\$6,300,000
- Borrow	CY	4,220,000	\$7.50	\$31,650,000
Pavement Items				
- Express Lanes Pavement	SY	619,000	\$52.00	\$32,188,000
- Local Lanes Pavement	SY	521,000	\$52.00	\$27,092,000
- Ramp Pavement	SY	199,000	\$48.00	\$9,552,000
- Crossroad Pavement	SY	102,000	\$36.00	\$3,672,000
- Concrete Curb & Gutter	LF	125,000	\$16.00	\$2,000,000
- Concrete Half Barrier	LF	380,000	\$60.00	\$22,800,000
Bridge Structures and Walls				
- Widening of Existing Bridges	LS	1	\$27,000,000	\$27,000,000
- Replacement of Existing Bridges	l.S	1	\$43,200,000	\$43,200,000
- New Bridges	LS	1	\$54,500,000	\$54,500,000
- Retaining Walls	SF	1,900,000	\$50	\$95,000,000
- Noise Walls	LS	1	\$14,000,000	\$14,000,000
Drainage Improvements				
- On-Site and Off-site Drainage Improvements	LS	1	\$32,000,000	\$32,000,000
Traffic Improvements				
- Pavement Marking	LS	1	\$1,600,000	\$1,600,000
- Signing	LS	1	\$11,500,000	\$11,500,000
- Lighting	LS	1	\$4,200,000	\$4,200,000
- Traffic Signals	L.S	1	\$2,900,000	\$2,900,000
Freeway Management Systems				
- FMS Relocation	LS	1	\$22,400,000	\$22,000,000
Environmental Mitigation				
- Cultural Resources & Biological Mitigation	LS	1	\$1,300,000	\$1,300,000
Utility Relocation				
- Utility Relocation	LS	1	\$13,300,000	\$13,300,000
Landscaping				
- Landscaping and Irrigation	Mile	19	\$750,000	\$14,250,000

- Landscaping and Irrigation	Mile	19	\$750,000	\$14,250,000
Subtotal	•			\$486,134,000
Maintenance and Protection of Traffic			10%	\$48,620,000
Dust and Water Palliative			1%	\$4,870,000
Quality Control			2%	\$9,730,000
Construction Surveying			2%	\$9,730,000
Erosion Control			0.25%	\$1,220,000
Mobilization (8% of Total Construction Items)			_	\$62,260,000
SUBTOTAL - CONSTRUCTION ITEMS:			-	\$622,564,000
Unidentified Items			25%	\$155,650,000
TOTAL CONSTRUCTION COST:			-	\$778,210,000
Construction Engineering			9%	\$70,040,000
Construction Contingencies			5%	\$38,920,000
Engineering Design (Includes Surveying And Geotechnica	D		8%	\$62,260,000
Right-of-Way				\$267,600,000
TOTAL PROJECT COST:			-	\$1,217,030,000

I-10 Corridor Improvement Study (State Route 51 to Santan Freeway)

West Airport Access
Option 4: Combination of Options 2 and 3

Estimate Date: December 1, 2006

Option 4: Combination of Options 2 and 3	Unit	Ougastitu	Unit Cost	Total
Description	Unit	Quantity	Unit Cost	iotai
Removals				
- Remove Structures and Obstructions	LS	1	\$3,000,000	\$3,000,000
- AC Pavement Removal	SY	126,000	\$12.00	\$1,512,000
- Conc Pavement Removal	SY	454,000	\$12.00	\$5,448,000
- Curb and Gutter Removal	ĹF	226,000	\$5.00	\$1,130,000
- Guardrail Removal	LF	85,000	\$3.00	\$255,000
- Barrier Removal	LF	59,000	\$15.00	\$885,000
- Bridge Structure Removals	LS		\$1,900,000	\$1,900,000
Earthwork				
- Roadway Excavation	CY	1,050,000	\$6.00	\$6,300,000
- Borrow	CY	4,220,000	\$7.50	\$31,650,000
Pavement Items				
- Express Lanes Pavement	SY	619,000	\$52.00	\$32,188,000
- Local Lanes Pavement	SY	521,000	\$52.00	\$27,092,000
- Ramp Pavement	SY	198,000	\$48.00	\$9,504,000
- Crossroad Pavement	SY	102,000	\$36.00	\$3,672,000
- Concrete Curb & Gutter	LF	125,000	\$16.00	\$2,000,000
- Concrete Half Barrier	LF	380,000	\$60.00	\$22,800,000
Bridge Structures and Walls				
- Widening of Existing Bridges	LS	1	\$29,300,000	\$29,300,000
- Replacement of Existing Bridges	LS	1	\$38,800,000	\$38,800,000
- New Bridges	LS	1	\$55,500,000	\$55,500,000
- Retaining Walls	SF	1,900,000	\$50	\$95,000,000
- Noise Walls	LS	1	\$14,000,000	\$14,000,000
Drainage Improvements				
- On-Site and Off-site Drainage Improvements	LS	1	\$32,000,000	\$32,000,000
Traffic Improvements				
- Pavement Marking	LS	1	\$1,600,000	\$1,600,000
- Signing	LS	1	\$11,500,000	\$11,500,000
- Lighting	LS	1	\$4,200,000	\$4,200,000
- Traffic Signals	LS	1	\$2,900,000	\$2,900,000
Freeway Management Systems	- 4			
- FMS Relocation	LS	1	\$22,400,000	\$22,000,000
Environmental Mitigation				
- Cultural Resources & Biological Mitigation	LS	1	\$1,300,000	\$1,300,000
		<u> </u>		
Utility Relocation	LS	1	\$13,300,000	\$13,300,000
- Utility Relocation	Lo	<u> </u>	\$10,000,000	ψ,ο,οοο,οοο
Landscaping			0750 000	644.050.000
- Landscaping and Irrigation	Mile	19	\$750,000	\$14,250,000

н	- Landscaping and irrigation	MILE	10 9,00,000	
L	Subtotal:			\$484,986,000
	Maintenance and Protection of Traffic		10%	\$48,500,000
	Dust and Water Palliative		1%	\$4,850,000
	Quality Control		2%	\$9,700,000
	Construction Surveying		2%	\$9,700,000
	Erosion Control		0.25%	\$1,220,000
	Mobilization (8% of Total Construction Items)			\$62,110,000
,	SUBTOTAL - CONSTRUCTION ITEMS:			\$621,066,000
•	Unidentified Items		25%	\$155,270,000
	TOTAL CONSTRUCTION COST:			\$776,340,000
			9%	\$69,880,000
	Construction Engineering		5%	\$38,820,000
	Construction Contingencies		8%	\$62,110,000
	Engineering Design (Includes Surveying And Geotechnical)		0,0	\$267,600,000
	Right-of-Way			\$1,214,750,000
	TOTAL PROJECT COST:			Ψ1,Σ1-7,100,000

ESTIMATE OF PROBABLE COST (2006)

I-10 Corridor Improvement Study (State Route 51 to Santan Freeway)

24th Street

Option 2: Half Diamond TI with Local Lanes

Option 2: Half Diamond TI with Local Lanes			Estimate Date: L	
Description	Unit	Quantity	Unit Cost	Total
Removals				
- Remove Structures and Obstructions	LS	1	\$3,000,000	\$3,000,000
- AC Pavement Removal	SY	107,000	\$12.00	\$1,284,000
- Conc Pavement Removal	SY	424,000	\$12.00	\$5,088,000 \$1,050,000
- Curb and Gutter Removal	LF	210,000	\$5.00 \$3.00	\$1,030,000
- Guardrall Removal	LF	78,000	\$3.00 \$15.00	\$825,000
- Barrier Removal	LF LS	55,000	\$1,700,000	\$1,700,000
- Bridge Structure Removals	LO		\$1,700,000	ψ1,, σσ,σσσ
Earthwork		4 050 000	66.00	\$6,300,000
- Roadway Excavation	CY	1,050,000	\$6.00 \$7.50	\$31,125,000
- Borrow	CY	4,150,000	\$7.50	ψ 31,123,000
Pavement Items			450.00	600 0E0 000
- Express Lanes Pavement	SY	501,000	\$52.00	\$26,052,000
- Local Lanes Pavement	SY	536,000	\$52.00	\$27,872,000 \$8,400,000
- Ramp Pavement	SY	175,000	\$48.00	\$3,204,000
- Crossroad Pavement	SY	89,000 115,000	\$36.00 \$16.00	\$1,840,000
- Concrete Curb & Gutter	LF		\$60.00	\$22,080,000
- Concrete Half Barrier	LF	368,000	900.00	ΨΖΖ,000,000
Bridge Structures and Walls			400 700 000	600 E00 000
- Widening of Existing Bridges	LS	1	\$28,500,000	\$28,500,000 \$37,800,000
- Replacement of Existing Bridges	LS	1	\$37,800,000	\$53,800,000
- New Bridges	LS	1	\$53,800,000 \$50	\$87,500,000
- Retaining Walls	SF LS	1,750,000	\$14,000,000	\$14,000,000
- Noise Walls	LS	<u> </u>	\$14,000,000	<u> </u>
Drainage Improvements			400 000 000	\$32,000,000
- On-Site and Off-site Drainage Improvements	LS	- 1	\$32,000,000	\$32,000,000
Traffic Improvements				******
- Pavement Marking	LS	1	\$1,600,000	\$1,600,000
- Signing	LS	1	\$11,500,000	\$11,500,000
- Lighting	LS	1	\$4,200,000	\$4,200,000 \$2,900,000
- Traffic Signals	LS	1	\$2,900,000	\$2,900,000
Freeway Management Systems				
- FMS Relocation	LS	1	\$22,000,000	\$22,000,000
Environmental Mitigation				
- Cultural Resources & Biological Mitigation	LS	1	\$1,300,000	\$1,300,000
Utility Relocation		<u> </u>		
- Utility Relocation	LS	1	\$12,800,000	\$12,800,000
Landscaping				
	Mile	18	\$750,000	\$13,500,000
- Landscaping and Irrigation				\$463,454,000
Subtotal:				
Maintenance and Protection of Traffic			10%	\$46,350,000
Dust and Water Palliative			1%	\$4,640,000
Quality Control			2%	\$9,270,000
Construction Surveying			2%	\$9,270,000
Erosion Control			0.25%	\$1,160,000
Mobilization (8% of Total Construction Items)				\$59,360,00
SUBTOTAL - CONSTRUCTION ITEMS:				\$593,504,000
Unidentified Items			25%	\$148,380,00
TOTAL CONSTRUCTION COST:				\$741,880,000
Construction Engineering			9%	\$66,770,00
Construction Contingencies			5%	\$37,100,00
Engineering Design (Includes Surveying And Geotechnical	1)		8%	\$59,360,00
Right-of-Way	•			\$260,200,00
TOTAL PROJECT COST:				\$1,165,310,000

I-10 Corridor Improvement Study (State Route 51 to Santan Freeway)

24th Street

Option 3: Full Diamond TI with Local Lanes

Estimate Date: December 1, 2006

Option 3: Full Diamond TI with Local Lanes			Estimate Date: December 1, 2006		
Unit	Quantity	Unit Cost	Total		
LS	1		\$3,000,000		
			\$1,284,000		
			\$5,088,000		
			\$1,050,000		
			\$234,000		
	55,000		\$825,000		
LS	1	\$1,700,000	\$1,700,000		
CY	1,050,000		\$6,300,000		
CY	4,150,000	\$7.50	\$31,125,000		
SY	500,000		\$26,000,000		
SY	542,000		\$28,184,000		
SY	184,000		\$8,832,000		
SY	89,000		\$3,204,000		
LF			\$1,840,000		
LF	376,000	\$60.00	\$22,560,000		
LS	1		\$28,500,000		
LS	1		\$37,800,000		
LS	1		\$57,500,000		
SF	1,700,000		\$85,000,000		
LS	1	\$14,000,000	\$14,000,000		
LS	1	\$32,000,000	\$32,000,000		
LS	1	\$1,600,000	\$1,600,000		
LS	1	\$11,600,000	\$11,600,000		
LS	1	\$4,200,000	\$4,200,000		
LS	1	\$2,900,000	\$2,900,000		
LS	1	\$13,900,000	\$22,200,000		
LS	1	\$1,300,000	\$1,300,000		
LS	1	\$13,100,000	\$13,100,000		
Mile	18	\$750,000	\$13,500,000		
	LS	LS 1 SY 107,000 SY 424,000 LF 210,000 LF 78,000 LF 55,000 LS 1 CY 1,050,000 CY 4,150,000 SY 542,000 SY 542,000 SY 89,000 LF 115,000 LF 376,000 LF 376,000 LF 1,050,000 LF 1,000,000 LS 1	Unit Quantity Unit Cost		

Subtotal:		\$466,426,000
Maintenance and Protection of Traffic	10%	\$46,650,000
Dust and Water Palliative	1%	\$4,670,000
Quality Control	2%	\$9,330,000
Construction Surveying	2%	\$9,330,000
Erosion Control	0.25%	\$1,170,000
Mobilization (8% of Total Construction Items)		\$59,740,000
SUBTOTAL - CONSTRUCTION ITEMS:		\$597,316,000
Unidentified Items	25%	\$149,330,000
TOTAL CONSTRUCTION COST:		\$746,650,000
Construction Engineering	9%	\$67,200,000
Construction Contingencies	5%	\$37,340,000
Engineering Design (Includes Surveying And Geotechnical)	8%	\$59,740,000
Right-of-Way	• **	\$306,200,000
TOTAL PROJECT COST:		\$1,217,130,000

ESTIMATE OF PROBABLE COST (2006)

I-10 Corridor Improvement Study (State Route 51 to Santan Freeway)

I-10/SR143 TI

Option 2: Restore University Dr. South Side Ramps Concept 1

Description 2: Restore University Dr. 30uti 3ic	Unit	Quantity	Unit Cost	Total
Removals				
- Remove Structures and Obstructions	LS	1	\$3,000,000	\$3,000,00
- AC Pavement Removal	SY	108,000	\$12.00	\$1,296,00
- Conc Pavement Removal	SY	440,000	\$12.00	\$5,280,00
- Curb and Gutter Removal	LF	215,000	\$5.00	\$1,075,00
- Guardrail Removal	LF	79,000	\$3.00	\$237,00
- Barrier Removal	LF	58,000	\$15.00	\$870,00
- Bridge Structure Removals	LS	1	\$1,700,000	\$1,700,00
Earthwork				
- Roadway Excavation	CY	1,050,000	\$6.00	\$6,300,00
- Borrow	CY	4,150,000	\$7.50	\$31,125,00
Pavement Items				
- Express Lanes Pavement	SY	544,000	\$52.00	\$28,288,00
- Local Lanes Pavement	SY	530,000	\$52.00	\$27,560,00
- Ramp Pavement	SY	181,000	\$48.00	\$8,688,00
- Crossroad Pavement	SY	91,000	\$36.00	\$3,276,00
- Concrete Curb & Gutter	L.F.	115,000	\$16.00	\$1,840,00
- Concrete Half Barrier	LF	375,000	\$60.00	\$22,500,00
Bridge Structures and Walls				
- Widening of Existing Bridges	LS	1	\$28,800,000	\$28,800,00
- Replacement of Existing Bridges	LS	1	\$37,200,000	\$37,200,00
- New Bridges	LS	1	\$55,800,000	\$55,800,00
- Retaining Walls	SF	1,730,000	\$50	\$86,500,00 \$14,000,00
- Noise Walls	LS	1	\$14,000,000	\$14,000,00
Drainage Improvements				000 000 00
- On-Site and Off-site Drainage Improvements	LS	1	\$32,000,000	\$32,000,00
Traffic Improvements				
- Pavement Marking	LS	1	\$1,600,000	\$1,600,00
- Signing	LS	1	\$11,700,000	\$11,700,00
- Lighting	LS	1	\$4,300,000	\$4,300,00
- Traffic Signals	LS	1	\$2,900,000	\$2,900,00
Freeway Management Systems				
- FMS Relocation	LS	1	\$22,200,000	\$22,100,00
Environmental Mitigation				
- Cultural Resources & Biological Mitigation	LS	1	\$1,300,000	\$1,300,00
Utility Relocation				
- Utility Relocation	LS	1	\$13,200,000	\$13,200,00
Landscaping	<u> </u>			
- Landscaping and Irrigation	Mile	18	\$750,000	\$13,500,00
Subt	otal:			\$467,935,00
			10%	\$46,800,00
Maintenance and Protection of Traffic			1%	\$4,680,00
Dust and Water Palliative			2%	\$9,360,0
Quality Control			2%	\$9,360,0
Construction Surveying Fresion Control			0.25%	\$1,170,0

Subtotal:		\$467,935,000
Maintenance and Protection of Traffic	10%	\$46,800,000
Dust and Water Palliative	1%	\$4,680,000
Quality Control	2%	\$9,360,000
Construction Surveying	2%	\$9,360,000
Erosion Control	0.25%	\$1,170,000
Mobilization (8% of Total Construction Items)		\$59,930,000
SUBTOTAL - CONSTRUCTION ITEMS:		\$599,235,000
Unidentified Items	25%	\$149,810,000
TOTAL CONSTRUCTION COST:		\$749,050,000
•	9%	\$67,420,000
Construction Engineering Construction Contingencies	5%	\$37,460,000
Engineering Design (Includes Surveying And Geotechnical)	8%	\$59,930,000
Right-of-Way		\$265,000,000
TOTAL PROJECT COST:		\$1,178,860,000

I-10 Corridor Improvement Study (State Route 51 to Santan Freeway)

I-10/SR143 TI

Option 3: Restore University Dr. South Side Ramps Concept 2 Estimate Date: December 1, 2006

Description	Unit	Quantity	Unit Cost	Total
Removals				
- Remove Structures and Obstructions	LS	1	\$3,000,000	\$3,000,000
- AC Pavement Removal	SY	110,000	\$12.00	\$1,320,000
- Conc Pavement Removal	SY	440,000	\$12.00	\$5,280,000
- Curb and Gutter Removal	LF	216,000	\$5.00	\$1,080,000
- Guardrail Removal	LF	79,000	\$3.00	\$237,000
- Barrier Removal	LF	58,000	\$15.00	\$870,000
- Bridge Structure Removals	LS	1	\$1,700,000	\$1,700,000
Earthwork				
- Roadway Excavation	CY	1,050,000	\$6.00	\$6,300,000
- Borrow	CY	4,150,000	\$7.50	\$31,125,000
Pavement Items				
- Express Lanes Pavement	SY	544,000	\$52.00	\$28,288,000
- Local Lanes Pavement	SY	531,000	\$52.00	\$27,612,000
- Ramp Pavement	SY	184,000	\$48.00	\$8,832,000
- Crossroad Pavement	SY	94,000	\$36.00	\$3,384,000
- Concrete Curb & Gutter	LF	115,000	\$16.00	\$1,840,000
- Concrete Half Barrier	LF	379,000	\$60.00	\$22,740,000
Bridge Structures and Walls			•	
- Widening of Existing Bridges	LS	1	\$28,800,000	\$28,800,000
- Replacement of Existing Bridges	LS	1	\$37,200,000	\$37,200,000
- New Bridges	LS	1	\$58,000,000	\$58,000,000
- Retaining Walls	SF	1,730,000	\$50	\$86,500,000
- Noise Walls	LS	1	\$14,000,000	\$14,000,000
Drainage Improvements	i i			
- On-Site and Off-site Drainage Improvements	LS	1	\$32,000,000	\$32,000,000
Traffic Improvements				
- Pavement Marking	LS	1	\$1,600,000	\$1,600,000
- Signing	LS	1	\$11,700,000	\$11,700,000
- Lighting	LS	1	\$4,300,000	\$4,300,000
- Traffic Signals	LS	1	\$2,900,000	\$2,900,000
Freeway Management Systems				
- FMS Relocation	L.S	1	\$22,200,000	\$22,200,000
Environmental Mitigation				
- Cultural Resources & Biological Mitigation	LS	1	\$1,300,000	\$1,300,000
Utility Relocation	· ·			
- Utility Relocation	LS	1	\$13,200,000	\$13,200,000
Landscaping				
- Landscaping and Irrigation	Mile	18	\$750,000	\$13,500,000

Subtotal:		\$470,808,000
Maintenance and Protection of Traffic	10%	\$47,090,000
Dust and Water Palliative	1%	\$4,710,000
Quality Control	2%	\$9,420,000
Construction Surveying	2%	\$9,420,000
Erosion Control	0.25%	\$1,180,000
Mobilization (8% of Total Construction Items)		\$60,300,000
SUBTOTAL - CONSTRUCTION ITEMS:		\$602,928,000
Unidentified Items	25%	\$150,740,000
TOTAL CONSTRUCTION COST:		\$753,670,000
	9%	\$67,840,000
Construction Engineering Construction Contingencies	5%	\$37,690,000
Engineering Design (Includes Surveying And Geotechnical)	8%	\$60,300,000
Right-of-Way		\$271,400,000
TOTAL PROJECT COST:		\$1,190,900,000

ESTIMATE OF PROBABLE COST (2006)

I-10 Corridor Improvement Study (State Route 51 to Santan Freeway)

I-10/SR143 TI

Option 4: Restore E-S Exit at 48th St			Estimate Date: December 1, 20 Unit Cost Total		
Description	Unit	Quantity	Unit Cost	iotai	
Removals					
- Remove Structures and Obstructions	LS	1	\$3,000,000	\$3,000,00	
- AC Pavement Removal	SY	107,000	\$12.00	\$1,284,0	
- Conc Pavement Removal	SY	425,000	\$12.00	\$5,100,0	
- Curb and Gutter Removal	LF	211,000	\$5.00	\$1,055,0	
- Guardrail Removal	LF	79,000	\$3.00	\$237,0	
- Barrier Removal	LF_	55,000	\$15.00	\$825,0 \$1,700,0	
- Bridge Structure Removals	LS	1	\$1,700,000	\$1,700,0	
Earthwork					
- Roadway Excavation	CY	1,050,000	\$6.00	\$6,300,0	
- Borrow	CY	4,160,000	\$7.50	\$31,200,0	
Pavement Items					
- Express Lanes Pavement	SY	533,000	\$52.00	\$27,716,0	
- Local Lanes Pavement	SY	523,000	\$52.00	\$27,196,0	
- Ramp Pavement	SY	171,000	\$48.00	\$8,208,0	
- Crossroad Pavement	ŞY	89,000	\$36.00	\$3,204,0	
- Concrete Curb & Gutter	LF	115,000	\$16.00	\$1,840,0	
- Concrete Half Barrier	LF	362,000	\$60.00	\$21,720,0	
Bridge Structures and Walls					
- Widening of Existing Bridges	LS	1	\$28,500,000	\$28,500,0	
- Replacement of Existing Bridges	LS	1	\$37,800,000	\$37,800,0	
- New Bridges	LS	1	\$54,100,000	\$54,100,0	
- Retaining Walls	SF	1,750,000	\$50	\$87,500,0	
- Noise Walls	LS	1	\$14,000,000	\$14,000,0	
Drainage Improvements					
- On-Site and Off-site Drainage Improvements	LS	1	\$32,000,000	\$32,000,0	
Traffic Improvements					
- Pavement Marking	LS	1	\$1,600,000	\$1,600,0	
- Signing	LS	1	\$11,500,000	\$11,500,0	
- Lighting	LS	1	\$4,200,000	\$4,200,0	
- Traffic Signals	LS	1	\$2,900,000	\$2,900,0	
Freeway Management Systems					
- FMS Relocation	LS	1	\$22,000,000	\$22,000,0	
Environmental Mitigation					
- Cultural Resources & Biological Mitigation	LS	1	\$1,300,000	\$1,300,0	
Utility Relocation					
- Utility Relocation	LS	1	\$11,900,000	\$11,900,0	
Landscaping		_			
- Landscaping and Irrigation	Mile	18	\$750,000	\$13,500,	
Subte	otal:			\$463,385,0	
			10%	\$46,340,0	
Maintenance and Protection of Traffic			1%	\$4,640,	

- Landscaping and Irrigation	Mile	10 9/30,000	\$10,000,000
	btotal:		\$463,385,000
Maintenance and Protection of Traffic		10%	\$46,340,000
Dust and Water Palliative		1%	\$4,640,000
Quality Control		2%	\$9,270,000
Construction Surveying		2%	\$9,270,000
Erosion Control		0.25%	\$1,160,000
Mobilization (8% of Total Construction Items)			\$59,350,000
SUBTOTAL - CONSTRUCTION ITEMS:		'	\$593,415,000
Unidentified Items		25%	\$148,360,000
TOTAL CONSTRUCTION COST:		'	\$741,780,000
		9%	\$66,770,000
Construction Engineering		5%	\$37,090,000
Construction Contingencies	o chaicall	8%	\$59,350,000
Engineering Design (Includes Surveying And Geot	echnical)	5,0	\$263,900,000
Right-of-Way			\$1,168,890,000
TOTAL PROJECT COST:			Ψ1,100,000,000

I-10 Corridor Improvement Study (State Route 51 to Santan Freeway)

Landscaping

Option 5: West Bound Broadway Rd to Un			Estimate Date: Dec	
Description	Unit	Quantity	Unit Cost	Total
Removals				
- Remove Structures and Obstructions	LS	1	\$3,000,000	\$3,000,000
- AC Pavement Removal	SY	108,000	\$12.00	\$1,296,000
- Conc Pavement Removal	SY	440,000	\$12.00	\$5,280,000
- Curb and Gutter Removal	LF	215,000	\$5.00	\$1,075,000
- Guardrail Removal	LF	79,000	\$3.00	\$237,000
- Barrier Removal	LF	58,000	\$15.00	\$870,000
- Bridge Structure Removals	LS	. 1	\$1,700,000	\$1,700,000
Earthwork				
- Roadway Excavation	CY	1,050,000	\$6.00	\$6,300,000
- Borrow	CY	4,160,000	\$7.50	\$31,200,000
Pavement Items			-	
- Express Lanes Pavement	SY	544,000	\$52.00	\$28,288,000
- Local Lanes Pavement	SY	530,000	\$52.00	\$27,560,000
- Ramp Pavement	SY	187,000	\$48.00	\$8,976,000
- Crossroad Pavement	SY	91,000	\$36.00	\$3,276,000
- Concrete Curb & Gutter	LF	118,000	\$16.00	\$1,888,000
- Concrete Half Barrier	LF	375,000	\$60.00	\$22,500,000
Bridge Structures and Walls				
- Widening of Existing Bridges	LS	1	\$28,800,000	\$28,800,000
- Replacement of Existing Bridges	LS	1	\$37,200,000	\$37,200,000
- New Bridges	L.S	1	\$55,800,000	\$55,800,000
- Retaining Walls	SF	1,730,000	\$50	\$86,500,000
- Noise Walls	LS	1	\$14,000,000	\$14,000,00
Drainage Improvements				
- On-Site and Off-site Drainage Improvements	LS	1	\$32,000,000	\$32,000,00
Traffic Improvements				
- Pavement Marking	LS	1	\$1,600,000	\$1,600,00
- Signing	LS	1	\$11,700,000	\$11,700,00
- Lighting	LS	1	\$4,300,000	\$4,300,00
- Traffic Signals	LS	1	\$2,900,000	\$2,900,00
Freeway Management Systems				
- FMS Relocation	LS	1	\$22,200,000	\$22,100,00
Environmental Mitigation				
- Cultural Resources & Biological Mitigation	LS	1	\$1,300,000	\$1,300,00
Utility Relocation				
- Utility Relocation	LS	1	\$13,200,000	\$13,200,00

1 and analog and bringtion	Mile	18	\$750,000	\$13,500,000
- Landscaping and Irrigation	I WING		4.60,500	
Subtota	l:			\$468,346,000
Maintenance and Protection of Traffic			10%	\$46,840,000
Dust and Water Palliative			1%	\$4,690,000
Quality Control			2%	\$9,370,000
Construction Surveying			2%	\$9,370,000
Erosion Control			0.25%	\$1,180,000
Mobilization (8% of Total Construction Items)				\$59,980,000
SUBTOTAL - CONSTRUCTION ITEMS:			_	\$599,776,000
Unidentified Items			25%	\$149,950,000
TOTAL CONSTRUCTION COST:			-	\$749,730,000
Construction Engineering			9%	\$67,480,000
Construction Contingencies			5%	\$37,490,000
Engineering Design (Includes Surveying And Geotechnic	al\		8%	\$59,980,000
Right-of-Way	uij			\$265,300,000
TOTAL PROJECT COST:			_	\$1,179,980,000

\$750,000

\$13,500,000

ESTIMATE OF PROBABLE COST (2006)

I-10 Corridor Improvement Study (State Route 51 to Santan Freeway)

Baseline Rd East Bound Exit Ramp

Ontion 2: Pamp Connection to Local Lanes

Option 2: Ramp Connection to Local Lanes			Estimate Date: D	
Description	Unit	Quantity	Unit Cost	Total
Removals				
- Remove Structures and Obstructions	LS	1	\$3,000,000	\$3,000,000
- AC Pavement Removal	SY	107,000	\$12.00	\$1,284,000
- Conc Pavement Removal	SY	434,000	\$12.00	\$5,208,000
- Curb and Gutter Removal	L.F	214,000	\$5.00	\$1,070,000 \$237,000
- Guardrall Removal	LF	79,000	\$3.00 \$15.00	\$870,000
- Barrier Removal	LF	58,000	\$1,700,000	\$1,700,000
- Bridge Structure Removals	LS		\$1,700,000	φι,,ου,ους
Earthwork				60 200 000
- Roadway Excavation	CY	1,050,000	\$6.00	\$6,300,000
- Borrow	CY	4,190,000	\$7.50	\$31,425,000
Pavement Items				
- Express Lanes Pavement	SY	544,000	\$52.00	\$28,288,000
- Local Lanes Pavement	SY	520,000	\$52.00	\$27,040,000
- Ramp Pavement	SY	168,000	\$48.00	\$8,064,000
- Crossroad Pavement	SY	89,000	\$36.00	\$3,204,000
- Concrete Curb & Gutter	LF	111,000	\$16.00	\$1,776,000
- Concrete Half Barrier	LF	370,000	\$60.00	\$22,200,00
Bridge Structures and Walls				
- Widening of Existing Bridges	LS	1	\$28,500,000	\$28,500,00
- Replacement of Existing Bridges	LS	1	\$37,800,000	\$37,800,00
- New Bridges	LS	1	\$51,700,000	\$51,700,00
- Retaining Walls	SF	1,750,000	\$50	\$87,500,00
- Noise Walls	LS	1	\$14,000,000	\$14,000,00
Drainage Improvements				
- On-Site and Off-site Drainage Improvements	LS	1	\$32,000,000	\$32,000,00
Traffic Improvements				
	LS	1.	\$1,600,000	\$1,600,00
- Pavement Marking - Signing	LS	1	\$11,500,000	\$11,500,00
- Signing - Lighting	LS	1	\$4,200,000	\$4,200,00
- Traffic Signals	L.S	1	\$2,900,000	\$2,900,00
Freeway Management Systems				
	LS	1	\$22,100,000	\$22,100,00
- FMS Relocation			V	<u> </u>
Environmental Mitigation	10	1	\$1,300,000	\$1,300,00
- Cultural Resources & Biological Mitigation	LS	1	\$1,300,000	\$1,000,00
Utility Relocation				040 700 00
- Utility Relocation	LS	1	\$12,700,000	\$12,700,00
Landscaping				
- Landscaping and Irrigation	Mile	18	\$750,000	\$13,500,00
Subtotal:				\$462,966,00
			10%	\$46,300,00
Maintenance and Protection of Traffic			1%	\$4,630,00
Dust and Water Palliative				\$9,260,00
Quality Control			2%	
Construction Surveying			2%	\$9,260,00
Erosion Control			0.25%	\$1,160,00 \$50,200,00
Mobilization (8% of Total Construction Items)				\$59,290,00
SUBTOTAL - CONSTRUCTION ITEMS:				\$592,866,00
Unidentified Items			25%	\$148,220,00
TOTAL CONSTRUCTION COST:				\$741,090,00
Construction Engineering			9%	\$66,700,00
Construction Contingencies			5%	\$37,060,00
Engineering Design (Includes Surveying And Geotechnical	}		8%	\$59,290,00
Right-of-Way	,			\$261,600,00
-			•	\$1,165,740,00
TOTAL PROJECT COST:				÷ ·,· · -). · -) · ·

I-10 Corridor Improvement Study (State Route 51 to Santan Freeway)

Removals

Description

Baseline Rd East Bound Exit Ramp
Option 3: Ramp Connection to Express and Local Lanes Estimate Date: December 1, 2006 Unit Cost

Unit Quantity

Total

Removals				
- Remove Structures and Obstructions	LS	1	\$3,000,000	\$3,000,000
- AC Pavement Removal	SY	107,000	\$12.00	\$1,284,000
- Conc Pavement Removal	SY	428,000	\$12.00	\$5,136,000
- Curb and Gutter Removal	LF	211,000	\$5.00	\$1,055,000
- Guardrail Removal	LF	79,000	\$3.00	\$237,000
- Barrier Removal	LF	57,000	\$15.00	\$855,000
- Bridge Structure Removals	LS	1	\$1,700,000	\$1,700,000
Earthwork				····
- Roadway Excavation	CY	1,050,000	\$6.00	\$6,300,000
- Borrow	CY	4,150,000	\$7.50	\$31,125,000
Pavement Items				
- Express Lanes Pavement	SY	533,000	\$52.00	\$27,716,000
- Local Lanes Pavement	SY	534,000	\$52.00	\$27,768,000
- Ramp Pavement	ŞY	168,000	\$48.00	\$8,064,000
- Crossroad Pavement	SY	89,000	\$36.00	\$3,204,000
- Concrete Curb & Gutter	LF	116,000	\$16.00	\$1,856,000
- Concrete Half Barrier	LF	365,000	\$60.00	\$21,900,000
Bridge Structures and Walls				
- Widening of Existing Bridges	LS	1	\$28,500,000	\$28,500,000
- Replacement of Existing Bridges	LS	1	\$37,800,000	\$37,800,000
- New Bridges	LS	1	\$56,800,000	\$56,800,000
- Retaining Walls	SF	1,830,000	\$50	\$91,500,000
- Noise Walls	LS	1	\$14,000,000	\$14,000,000
Drainage Improvements				
	LS	1	\$32,000,000	\$32,000,000
- On-Site and Off-site Drainage Improvements	LO	<u> </u>	002,000,000	*************************************
Traffic Improvements			64 600 000	\$1,600,000
- Pavement Marking	<u>LS</u>	1 1	\$1,600,000 \$11,500,000	\$11,500,000
- Signing	LS		\$4,200,000	\$4,200,000
- Lighting	LS	1	\$2,900,000	\$2,900,000
- Traffic Signals	LS	 	\$2,500,000	φ2,000,000
Freeway Management Systems			000.000.000	600,000,000
- FMS Relocation	LS	1	\$22,000,000	\$22,000,000
Environmental Mitigation				
- Cultural Resources & Biological Mitigation	LS	1	\$1,300,000	\$1,300,000
Utility Relocation				
- Utility Relocation	LS	1	\$13,900,000	\$13,900,000
Landscaping				
- Landscaping and Irrigation	Mile	18	\$750,000	\$13,500,000
		1		\$472,700,000
Subtotal:				
Maintenance and Protection of Traffic			10%	\$47,270,000
Dust and Water Palliative			1%	\$4,730,000
Quality Control			2%	\$9,460,000
Construction Surveying			2%'	\$9,460,000
Erosion Control			0.25%	\$1,190,000
Mobilization (8% of Total Construction Items)				\$60,540,000
SUBTOTAL - CONSTRUCTION ITEMS:			•	\$605,350,000
			25%	\$151,340,000
Unidentified Items				\$756,690,000
TOTAL CONSTRUCTION COST:			09/	
			9%	\$68,110,000
Construction Engineering				607 040 000
Construction Contingencies			5%	
• •				\$37,840,000 \$60,540,000
Construction Contingencies			5%	

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